

## Patent Abstracts of Japan

PUBLICATION NUMBER : 60222782  
PUBLICATION DATE : 07-11-85

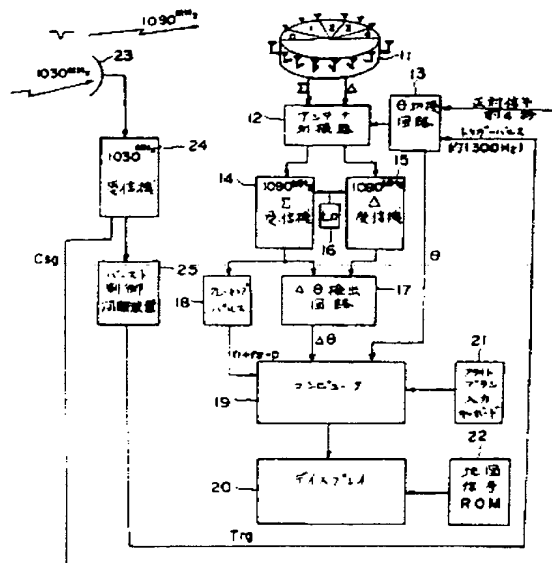
APPLICATION DATE : 20-04-84  
APPLICATION NUMBER : 59078615

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INT.CL. : G01S 13/76

TITLE : PASSIVE TYPE SSR APPARATUS



**ABSTRACT :** PURPOSE: To detect and display the direction and position of an aircraft by receiving and computing a response radio wave from the aircraft with respect to an interrogation radio wave transmitted from an interrogator at a specified SSR site.

CONSTITUTION: A CPU19 performs an arithmetic processing according to various input data. For example, a  $\Sigma$  signal responded from a receiver 14 is decoded to detect altitude information (mode C) or the status response (mode A) of an aircraft or to detect the direction  $\theta_0 + \Delta\theta$  of the aircraft from the detection center angle  $\theta_0$  from a  $\theta$  switching circuit 13 and an error angle  $\Delta\theta$  from a  $\Delta\theta$  detection circuit 17. A framing pulse from a framing pulse generation circuit 18 is counted to detect the propagation delay time of the  $\Sigma$  signal or based on the data, the distance  $r_2$  to the target aircraft is calculated from the main machine. A display output signal is generated based on the input data and computation output data and outputted to a display 20.

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